SEQUENCE LISTING

<110> Oncoimmunin, Inc.
Komoriya, Akira
Packard, Beverly

<120> COMPOSITIONS FOR THE DETECTION OF ENZYME ACTIVITY IN BIOLOGICAL
SAMPLES AND METHODS OF USE THEREOF

<130> 300-903820US

<140> US 09/394,019
<141> 1999-09-10

<150> PCT/US98/00300
<151> 1998-02-20

<150> US 08/802,981
<151> 1997-02-20

<160> 405

<170> PatentIn version 3.2

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Gly Tyr


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Lys Gly Tyr

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Tyr

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Tyr

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Gly Tyr


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Gly Tyr



<210>   35
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Gly Tyr


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<223> X is epsilon aminocaproic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 36

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1   5   10   15

Lys Gly Lys

<210> 37
<211> 19
<212> PRT
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<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

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<223> X is epsilon aminocaproic acid

<220>
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<223> X is D form tetrahydroisoquinoline-3-carboxylic acid

<220>
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<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES

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<223>    X is epsilon aminocaproic acid

<220>
<221>    misc_feature
<222>    (15)..(15)
<223>    Xaa can be any naturally occurring amino acid

<400>    37

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1                   5                   10                  15


Lys Gly Tyr



<210>    38
<211>    19
<212>    PRT
<213>    Artificial

<220>
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<220>
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<220>
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<223>    Xaa can be any naturally occurring amino acid

<220>
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<223>    X is epsilon aminocaproic acid

<220>
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<223>    X is epsilon aminocaproic acid

<220>
<221>    misc_feature
<222>    (15)..(15)
<223>    Xaa can be any naturally occurring amino acid

<400>    38

Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1                   5                   10                  15


Lys Gly Tyr



<210>    39
<211>    19
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<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> MOD_RES
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<223> X is Aib

<220>
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<222> (3)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is epsilon aminocaproic acid

<220>
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<222> (6)..(6)
<223> W is D form

<220>
<221> MOD_RES
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<223> X is epsilon aminocaproic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 39

Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 40
<211> 20
<212> PRT
<213> Artificial

<220>
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<220>
<221> MOD_RES
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<223> X is Aib

<220>
<221> misc_feature
<222> (3)..(4)

<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is epsilon aminocaproic acid

<220>
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<222> (6)..(7)
<223> X is D form tetrahydroisoquinoline-3-carboxylic acid

<220>
<221> misc_feature
<222> (6)..(7)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is epsilon aminocaproic acid

<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 40

Lys Asp Xaa Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
          20

<210> 41
<211> 20
<212> PRT
<213> Artificial

<220>
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<220>
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<220>
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<222> (3)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<220>
<221> MOD_RES
<222> (6)..(7)

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<220>
<221>   MOD_RES
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<223>   X is epsilon aminocaproic acid

<220>
<221>   misc_feature
<222>   (16)..(16)
<223>   Xaa can be any naturally occurring amino acid

<400>   41

Lys Asp Xaa Xaa Gly Trp Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa
1               5                   10                  15


Pro Lys Gly Tyr
            20



<210>   42
<211>   14
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<223>   X is Aib

<220>
<221>   misc_feature
<222>   (3)..(3)
<223>   Xaa can be any naturally occurring amino acid

<400>   42

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10



<210>   43
<211>   14
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<223>   X is Aib

<220>
<221>   misc_feature
<222>   (3)..(3)
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<223>   Xaa can be any naturally occurring amino acid

<400>   43

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
1   5   10

<210>   44
<211>   14
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<223>   X is Aib

<220>
<221>   misc_feature
<222>   (3)..(3)
<223>   Xaa can be any naturally occurring amino acid

<400>   44

Lys Asp Xaa Tyr Val Ala Asn Gly Ile Asn Pro Lys Gly Tyr
1   5   10

<210>   45
<211>   16
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<223>   X is Aib

<220>
<221>   misc_feature
<222>   (3)..(3)
<223>   Xaa can be any naturally occurring amino acid

<400>   45

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1   5   10   15

<210>   46
<211>   16
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<213>   Artificial

<220>

<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
<221> misc_feature
<222> (3)..(3)
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<400> 46

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Pro Lys Gly Tyr
1   5   10   15

<210> 47
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 47

Lys Asp Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Pro Lys Gly Tyr
1   5   10   15

<210> 48
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<220>

<221> MOD_RES
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<223> X is epsilon aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 48

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 49
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

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<220>
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<222> (3)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<220>
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 49

Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 50
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<222> (3)..(4)
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<220>
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<220>
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 50

Lys Asp Xaa Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 51
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
<221> misc_feature

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<222>   (3)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
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<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid

<220>
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<223>   X is epsilon aminocaproic acid

<220>
<221>   misc_feature
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<223>   Xaa can be any naturally occurring amino acid

<400>   51

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15


Gly Tyr


<210>   52
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<223>   X is Aib

<220>
<221>   misc_feature
<222>   (3)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid

<220>
<221>   MOD_RES
<222>   (6)..(6)
<223>   Y is D form

<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   X is epsilon aminocaproic acid

<220>
<221>   misc_feature
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 52

Lys Asp Xaa Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 53
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> K is blocked with Fmoc

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (13)..(13)
<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 53

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 54
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

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<220>
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<223>  K is blocked with Fmoc

<220>
<221>  MOD_RES
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<223>  X is epsilon aminocaproic acid

<220>
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<220>
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<223>  X is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (13)..(13)
<223>  Xaa can be any naturally occurring amino acid

<400>  54

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1               5                   10              15


Tyr



<210>  55
<211>  14
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  MOD_RES
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<223>  X is Aib

<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa can be any naturally occurring amino acid

<400>  55

Lys Asp Xaa Leu Val Glu Ile Asp Asn Gly Pro Lys Gly Tyr
1               5                   10


<210>  56
<211>  16
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<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 56

Lys Asp Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Pro Lys Gly Tyr
1   5   10   15

<210> 57
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<222> (4)..(4)
<223> X is epsilon aminocaproic acid

<220>
<221> MOD_RES
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 57

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asp Asn Gly Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

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<210>   58
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<223>   X is Aib

<220>
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<222>   (3)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid

<220>
<221>   MOD_RES
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<223>   X is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (14)..(14)
<223>   Xaa can be any naturally occurring amino acid

<400>   58

Lys Asp Xaa Xaa Gly Leu Val Glu Ile Asn Asn Gly Gly Xaa Pro Lys
1               5                   10                  15


Gly Tyr


<210>   59
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<222>   (1)..(1)
<223>   K is blocked with Fmoc

<220>
<221>   MOD_RES
<222>   (4)..(4)
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<223> X is epsilon aminocaproic acid

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 59

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 60
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> MOD_RES
<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
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<223> X is epsilon aminocaproic acid

<220>
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<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (12)..(12)
<223> Xaa can be any naturally occurring amino acid

<400> 60

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr

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<210>   61
<211>   16
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<222>   (1)..(1)
<223>   K is blocked with Fmoc

<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
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<223>   X is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (12)..(12)
<223>   Xaa can be any naturally occurring amino acid

<400>   61
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Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1   5   10   15


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<210>   62
<211>   17
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<223>   X is Aib

<220>
<221>   misc_feature
<222>   (3)..(3)
<223>   Xaa can be any naturally occurring amino acid

<400>   62
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Lys Asp Xaa Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Pro Lys Gly
1   5   10   15

Tyr

<210> 63
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> MOD_RES
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<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 63

Lys Asp Xaa Gly Ile Glu Thr Asn Ser Gly Val Asp Asp Pro Lys Gly
1   5   10   15

Tyr

<210> 64
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 64

Lys Asp Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Asp Asp Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 65
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 65

Lys Asp Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Pro Lys Gly
1   5   10   15

Tyr

<210> 66
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<222> (3)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
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<223> X is epsilon aminocaproic acid

<220>
<221> MOD_RES
<222> (13)..(13)
<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 66

Lys Asp Xaa Xaa Gly Ile Glu Thr Asp Ser Gly Val Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 67
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
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<222> (3)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is epsilon aminocaproic acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 67

Lys Asp Xaa Xaa Gly Ile Glu Thr Asn Ser Gly Val Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 68
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
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<222> (3)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<220>
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<223> X is episilon-aminocaproic acid

<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 68

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asp Ser Gly Val Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 69
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<223> X is Aib

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is epsilon aminocaproic acid

<220>
<221> MOD_RES
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 69

Lys Asp Xaa Xaa Gly Gly Ile Glu Thr Asn Ser Gly Val Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 70
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<400> 70

Lys Asp Xaa Gly Ser Glu Ser Met Asp Ser Gly Ile Ser Leu Asp Pro
1   5   10   15

Lys Gly Tyr

<210> 71
<211> 17
<212> PRT
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<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 71

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Lys Asp Xaa Gly Gly Ser Glu Ser Met Asp Ser Gly Gly Pro Lys Gly
1   5   10   15

Tyr

<210>   72
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<212>   PRT
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<220>
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<220>
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<220>
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<223>   Xaa can be any naturally occurring amino acid

<400>   72

Lys Asp Xaa Xaa Gly Gly Ser Glu Ser Met Asp Ser Gly Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210>   73
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<212>   PRT
<213>   Artificial

<220>
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<220>
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<220>
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<400>   73

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1               5                   10                  15


Lys Gly Tyr



<210>   74
<211>   19
<212>   PRT
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<220>
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<220>
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<222>   (15)..(15)
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<400>   74

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210>   75
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<220>
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<400>   75

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210>   76
<211>   19

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<212>   PRT
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<220>
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<220>
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<400>   76

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1               5                   10                  15


Lys Gly Tyr



<210>   77
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<220>
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<220>
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<220>
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<400> 77

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 78
<211> 18
<212> PRT
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<220>
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<400> 78

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 79
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<212> PRT
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<220>
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<220>
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<400> 79

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Asp Ser Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 80
<211> 18
<212> PRT
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<220>
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<223>  V is D form

<220>
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<220>
<221>  misc_feature
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<400>  80

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Cys Pro Gly Xaa Pro Lys
1               5                   10              15


Gly Tyr


<210>  81
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<212>  PRT
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<220>
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<220>
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<220>
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<400>  81

Lys Asp Xaa Xaa Gly Glu Asp Val Val Cys Asp Pro Gly Xaa Pro Lys
1               5                   10                  15


Gly Tyr



<210>  82
<211>  19
<212>  PRT
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<220>
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<220>
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<223>  X is epsilon aminocaproic acid

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<220>
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<400>  82

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Ser Gly Xaa Pro
1               5                   10                  15


Lys Gly Tyr



<210>  83
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<220>
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<220>
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<220>
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<400>  83

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Ser Gly Xaa Pro
1               5                   10                  15
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Lys Gly Tyr

<210> 84
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<212> PRT
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<220>
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<220>
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<400> 84

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Pro Met Ser Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 85
<211> 18
<212> PRT
<213> Artificial

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<220>
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<220>
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<220>
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<400>  85

Lys Asp Xaa Xaa Gly Asp Val Val Cys Cys Ser Met Gly Xaa Pro Lys
1               5                   10                  15


Gly Tyr



<210>  86
<211>  18
<212>  PRT
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<220>
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<220>
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<400> 86

Lys Asp Xaa Xaa Gly Asp Val Val Cys Asp Ser Met Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 87
<211> 16
<212> PRT
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<220>
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<400> 87

Lys Asp Xaa Xaa Gly Val Cys Cys Ser Met Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 88
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<212> PRT
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<220>
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<400> 88

Lys Asp Xaa Xaa Gly Val Cys Asp Ser Met Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 89
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<220>
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<400> 89

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Cys Ser Gln His Leu Pro
1   5   10   15

Lys Gly Tyr

<210> 90
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<212> PRT
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<220>
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<400> 90

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Cys Pro Gln His Leu Pro
1   5   10   15

Lys Gly Tyr

<210> 91
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<212> PRT
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<220>
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<400> 91

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Asp Ser Gln His Leu Pro
1   5   10   15

Lys Gly Tyr

<210> 92
<211> 18
<212> PRT
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<400> 92

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Pro Lys
1   5   10   15

Gly Tyr

<210> 93
<211> 18
<212> PRT
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<400>   93

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1               5                   10                  15


Gly Tyr



<210>   94
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<220>
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<223>   X is epsilon aminocaproic acid

<400>   94

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Pro Lys
1               5                   10                  15


Gly Tyr



<210>   95
<211>   19
<212>   PRT
<213>   Artificial

<220>
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<220>
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<400> 95

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 96
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<212> PRT
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<220>
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<400> 96

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 97
<211> 19
<212> PRT
<213> Artificial

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<400>   97

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210>   98
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<220>
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<400>   98

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

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<210>  99
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<220>
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<222>  (16)..(16)
<223>  Xaa can be any naturally occurring amino acid

<400>  99

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Gly Xaa
1               5                   10                  15


Pro Lys Gly Tyr
            20


<210>  100
<211>  20
<212>  PRT
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<220>
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<220>
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<222> (16)..(16)
<223> Xaa can be any naturally occurring amino acid

<400> 100

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 101
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<400> 101

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 102
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<400> 102

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

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<400> 103

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1   5   10   15

Tyr

<210> 104
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<400> 104

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 105
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<220>
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<400> 105

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1   5   10   15

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<400>  106

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1               5               10                  15


Tyr



<210>  107
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<223>  M is D form
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<400>  107

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>  108
<211>  8
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<220>
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<223>  X is epsilon aminocaproic acid

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<223>  Xaa can be any naturally occurring amino acid

<400>  108

Lys Asp Pro Xaa Thr Gly Arg Thr
1               5


<210>  109
<211>  11
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<220>
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<400> 109

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210>   110
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Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210>   111
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<213>   Artificial

<220>
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<220>
<221>   misc_feature
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<223>   Xaa can be any naturally occurring amino acid

<400>   111

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10

-67-

<210> 112
<211> 15
<212> PRT
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<220>
<223> Synthetic peptide substrate

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<400> 112

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 113
<211> 14
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<220>
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<222> (4)..(4)

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<223> Xaa can be any naturally occurring amino acid

<400> 113

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1               5                   10
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<210> 114
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<400> 114

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Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10
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<210> 115
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<400> 115

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1               5                   10
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<210> 116

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<400>  116

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10


<210>  117
<211>  13
<212>  PRT
<213>  Artificial

<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  117

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10


<210>  118
<211>  17
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<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  118

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1               5                   10                  15

Tyr


<210>  119
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<212>  PRT
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<220>
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<223>  M is D form

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<400> 119

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 120
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<400> 120

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 121
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<400> 121

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

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Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
            20   25

<210> 123
<211> 20
<212> PRT
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<220>
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<220>
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<400>   123

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Gly Tyr
            20



<210>   124
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<220>
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<400> 124

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 125
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<400> 125

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Asp Asp Tyr

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<210>  126
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<220>
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<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  126

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Asp Asp Tyr
            20


<210>  127
<211>  21
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<400> 127

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1   5   10   15

Pro Lys Asp Asp Tyr
            20

<210> 128
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<212> PRT
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<400> 128

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Asp Glu Phe Gly Xaa

Pro Lys Asp Asp Tyr
                    20

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<400>   129

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1   5   10   15

Pro Lys Asp Asp Tyr
                    20

<210>   130
<211>   23
<212>   PRT
<213>   Artificial

<220>
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<400> 130

Lys Asp Xaa Xaa Gly Gly Val Val Ile Ala Thr Val Ile Val Ile Thr
1   5   10   15

Gly Xaa Pro Lys Asp Asp Tyr
          20

<210> 131
<211> 24
<212> PRT
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<222> (19)..(19)
<223> Xaa can be any naturally occurring amino acid

<400> 131

Lys Asp Xaa Xaa Gly Tyr Gly Val Val Ile Ala Thr Val Ile Val Ile
1   5   10   15

Thr Gly Xaa Pro Lys Asp Asp Tyr
            20

<210> 132
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

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<223> X is epsilon aminocaproic acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 132

Lys Asp Xaa Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1   5   10   15

Asp Tyr

<210> 133
<211> 18
<212> PRT
<213> Artificial

<220>
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<223>  X is episilon-aminocaproic acid

<220>
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<222>  (13)..(13)
<223>  Xaa can be any naturally occurring amino acid

<400>  133

Lys Asp Xaa Xaa Asx Tyr Gly Val Val Ile Ala Gly Xaa Pro Lys Asp
1               5                   10                  15


Asp Tyr


<210>  134
<211>  15
<212>  PRT
<213>  Artificial

<220>
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<220>
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<220>
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<223>  X is episilon-aminocaproic acid
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<220>
<221>  misc_feature
<222>  (12)..(13)
<223>  Xaa can be any naturally occurring amino acid


<400>  134

Lys Asp Xaa Xaa Xaa Gln Gln Leu Leu His Asn Xaa Xaa Pro Lys
1               5                   10                  15


<210>  135
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<212>  PRT
<213>  Artificial


<220>
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<220>
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<223>  Xaa can be any naturally occurring amino acid


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<220>
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<223>  X is episilon-aminocaproic acid


<220>
<221>  misc_feature
<222>  (13)..(13)
<223>  Xaa can be any naturally occurring amino acid


<400>  135

Lys Asp Xaa Xaa Gly Gln Gln Leu Leu His Asn Gly Xaa Pro Lys
1               5                   10                  15


<210>  136
<211>  13
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<220>
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<220>
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<223>  X is Aib
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<220>
<221> misc_feature
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<223> Xaa can be any naturally occurring amino acid

<400> 136

Lys Asp Xaa Gly Gln Gln Leu Leu His Asn Gly Pro Lys
1   5   10

<210> 137
<211> 11
<212> PRT
<213> Artificial

<220>
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<223> X is Aib

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa can be any naturally occurring amino acid

<400> 137

Lys Asp Xaa Gln Gln Leu Leu His Asn Pro Lys
1   5   10

<210> 138
<211> 15
<212> PRT
<213> Artificial

<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

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<223>   X is episilon-aminocaproic acid

<220>
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<222> (12)..(13)
<223> Xaa can be any naturally occurring amino acid

<400>   138

Lys Asp Xaa Xaa Xaa Ser Ile Gln Tyr Thr Tyr Xaa Xaa Pro Lys
1   5   10   15

<210>   139
<211>   15
<212>   PRT
<213>   Artificial

<220>
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<223> X is epsilon aminocaproic acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa can be any naturally occurring amino acid

<400>   139

Lys Asp Xaa Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Xaa Pro Lys
1   5   10   15

<210>   140
<211>   13
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<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<220>
<221>   misc_feature
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<223>   Xaa can be any naturally occurring amino acid


<400>   140

Lys Asp Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Pro Lys
1               5               10


<210>   141
<211>   11
<212>   PRT
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<220>
<223>   Synthetic peptide substrate


<220>
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<223>   X is Aib

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<223>   Xaa can be any naturally occurring amino acid


<400>   141

Lys Asp Xaa Ser Ile Gln Tyr Thr Tyr Pro Lys
1               5               10


<210>   142
<211>   15
<212>   PRT
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<220>
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<223>   Xaa can be any naturally occurring amino acid

<220>
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<223>   X is epsilon aminocaproic acid

<220>
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<223>   X is episilon-aminocaproic acid


<220>
<221>   misc_feature
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<223>   Xaa can be any naturally occurring amino acid


<400>   142

Lys Asp Xaa Xaa Xaa Ser Ser Gln Tyr Ser Asn Xaa Xaa Pro Lys
1               5               10              15


<210>   143
<211>   15
<212>   PRT
<213>   Artificial

<220>
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<220>
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<223>   X is Aib


<220>
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<223>   Xaa can be any naturally occurring amino acid


<220>
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<223>   X is epsilon aminocaproic acid


<220>
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<223>   X is episilon-aminocaproic acid


<220>
<221>   misc_feature
<222>   (13)..(13)
<223>   Xaa can be any naturally occurring amino acid


<400>   143

Lys Asp Xaa Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Xaa Pro Lys
1               5               10              15


<210>   144
<211>   13
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate
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<223>  X is Aib

<220>
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<222>  (3)..(3)
<223>  Xaa can be any naturally occurring amino acid

<400>  144

Lys Asp Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1               5                   10


<210>  145
<211>  11
<212>  PRT
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<220>
<223>  Synthetic peptide substrate


<220>
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<223>  X is Aib

<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa can be any naturally occurring amino acid

<400>  145

Lys Asp Xaa Ser Ser Gln Tyr Ser Asn Pro Lys
1               5                   10


<210>  146
<211>  15
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
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<220>
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<222>  (3)..(5)
<223>  Xaa can be any naturally occurring amino acid

<220>
<221>  MOD_RES
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<223>  X is epsilon aminocaproic acid
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<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (12)..(13)
<223> Xaa can be any naturally occurring amino acid

<400> 146

Lys Asp Xaa Xaa Xaa Ser Ser Ile Tyr Ser Gln Xaa Xaa Pro Lys
1   5   10   15

<210> 147
<211> 15
<212> PRT
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<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
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<223> Xaa can be any naturally occurring amino acid

<400> 147

Lys Asp Xaa Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Xaa Pro Lys
1   5   10   15

<210> 148
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

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<223>  X is Aib

<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa can be any naturally occurring amino acid

<400>  148

Lys Asp Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1               5                   10


<210>  149
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
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<223>  X is Aib

<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa can be any naturally occurring amino acid

<400>  149

Lys Asp Xaa Ser Ser Ile Tyr Ser Gln Pro Lys
1               5                   10


<210>  150
<211>  20
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
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<222>  (1)..(1)
<223>  K is blocked with Fmoc

<220>
<221>  MOD_RES
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<223>  X is epsilon aminocaproic acid

<220>
<221>  misc_feature
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<222>   (4)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
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<223>   X is episilon-aminocaproic acid

<220>
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<223>   Xaa can be any naturally occurring amino acid

<400>   150

Lys Asp Pro Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210>   151
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<223>   K is blocked with Fmoc

<220>
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<223>   X is epsilon aminocaproic acid

<220>
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<223>   Xaa can be any naturally occurring amino acid

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<223>   X is episilon-aminocaproic acid

<220>
<221>   misc_feature
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<223>   Xaa can be any naturally occurring amino acid

<400>   151

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

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<210>  152
<211>  18
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
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<223>  Xaa can be any naturally occurring amino acid

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<223>  X is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (14)..(14)
<223>  Xaa can be any naturally occurring amino acid

<400>  152

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15


Gly Tyr



<210>  153
<211>  18
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
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<220>
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<223>   X is epsilon aminocaproic acid

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   X is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (14)..(14)
<223>   Xaa can be any naturally occurring amino acid

<400>   153

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210>   154
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<220>
<221>   MOD_RES
<222>   (4)..(4)
<223>   X is epsilon aminocaproic acid

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
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<220>
<221>   misc_feature
<222>   (11)..(11)
<223>   Xaa can be any naturally occurring amino acid

<400>   154

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr

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<210>  155
<211>  18
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
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<223>  X is epsilon aminocaproic acid

<220>
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<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  155
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Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr


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<210>  156
<211>  14
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


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<223>  K is blocked with Fmoc

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<223>   X is epsilon aminocaproic acid

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa can be any naturally occurring amino acid

<400>   156

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1   5   10

<210>   157
<211>   16
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<220>
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<223>   Xaa can be any naturally occurring amino acid

<220>
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<220>
<221>   misc_feature
<222>   (12)..(12)
<223>   Xaa can be any naturally occurring amino acid

<400>   157

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210>   158
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
<221>   MOD_RES

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<222> (1)..(1)
<223> K is blocked with Fmoc

<220>
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<223> X is epsilon aminocaproic acid

<220>
<221> misc_feature
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<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 158

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 159
<211> 19
<212> PRT
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<220>
<223> Synthetic peptide substrate

<220>
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<223> K is blocked with Fmoc

<220>
<221> MOD_RES
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<220>
<221> misc_feature
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature

<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 159

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 160
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> MOD_RES
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<223> K is blocked with Fa

<220>
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<223> X is epsilon aminocaproic acid

<220>
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<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 160

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 161
<211> 10
<212> PRT
<213> Artificial

<220>
<223> Peptide spacer

<400> 161

Asp Gly Ser Gly Gly Gly Glu Asp Glu Lys
1   5   10

<210> 162
<211> 7
<212> PRT
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<220>
<223> peptide spacer

<400> 162

Lys Glu Asp Gly Gly Asp Lys
1   5

<210> 163
<211> 8
<212> PRT
<213> Artificial

<220>
<223> Peptide spacer

<220>
<221> Artificial
<222> (1)..(8)
<223> Spacer

<400> 163

Asp Gly Ser Gly Glu Asp Glu Lys
1   5

<210> 164
<211> 9
<212> PRT
<213> Artificial

<220>
<223> Peptide spacer

<220>
<221> Artificial
<222> (1)..(9)
<223> Spacer

<400> 164

Lys Glu Asp Glu Gly Ser Gly Asp Lys
1   5

<210> 165
<211> 8
<212> PRT

<213> Artificial

<220>
<223> protease inhibitor

<400> 165

Asp Val Val Cys Cys Ser Met Ser
1   5

<210> 166
<211> 7
<212> PRT
<213> artificial

<220>
<223> protease inhibitor

<220>
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<223> d amino acid

<400> 166

Asp Val Val Cys Pro Met Ser
1   5

<210> 167
<211> 9
<212> PRT
<213> Artificial

<220>
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<220>
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<223> X is norleucine

<220>
<221> misc_feature
<222> (5)..(5)
<223> Xaa can be any naturally occurring amino acid

<400> 167

Asp Ala Ile Pro Xaa Ser Ile Pro Cys
1   5

<210> 168
<211> 11
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

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<220>
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<223>  X is norleucine

<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  Xaa can be any naturally occurring amino acid

<400>  168

Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1               5               10


<210>  169
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  misc_feature
<223>  Artificial  = synthetic protease indicator

<220>
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<222>  (1)..(1)
<223>  D is derivatized with fluorophore

<220>
<221>  MOD_RES
<222>  (9)..(9)
<223>  K is derivatized with fluorophore

<400>  169

Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5               10


<210>  170
<211>  12
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  misc_feature
<223>  Artificial = synthetic protease indicator

<220>
<221>  MOD_RES
<222>  (1)..(1)
<223>  P is derivatized with fluorophore
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<220>
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<222>  (10)..(10)
<223>  K is derivatized with fluorophore


<400>  170

Pro Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10



<210>  171
<211>  12
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<220>
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<220>
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<220>
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<223>  K is blocked with Fmoc

<220>
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<223>  K is derivatized with fluorophore

<220>
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<223>  X is norleucine (Nlu)

<220>
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<222>  (6)..(6)
<223>  Xaa can be any naturally occurring amino acid

<220>
<221>  MOD_RES
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<223>  K is derivatized with fluorophore


<400>  171

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1               5                   10



<210>  172
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<212>  PRT
<213>  Artificial

<220>
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<220>
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<220>
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<223>  K is derivatized with fluorophore

<400>  172

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1                5                   10


<210>  173
<211>  11
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
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<220>
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<223>  D is blocked wiht Fmoc

<220>
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<223>  X is norleucine (Nlu)

<220>
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<223>  Xaa can be any naturally occurring amino acid

<220>
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<223>  K is derivatized with fluorophore

<400>  173
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Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1   5   10

<210>   174
<211>   14
<212>   PRT
<213>   Artificial

<220>
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<220>
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<220>
<221>   MOD_RES
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<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
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<223>   K is derivatized with fluorophore

<400>   174

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210>   175
<211>   14
<212>   PRT
<213>   Artificial

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<220>
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<220>
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<400>   175

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210> 176
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<220>
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<223> K is blocked with Fmoc

<220>
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<223> K is derivatized with fluroophore

<400> 176

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210> 177
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<220>
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<223> K is derivatized with fluorophore

<400> 177

Lys Asp Asx Asp Glu Val Asn Gly Ile Asp Pro Lys Gly Tyr

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<210>  178
<211>  13
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<213>  Artificial

<220>
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<223>  K is blocked with Fmoc

<220>
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<223>  K is derivatized with fluorophore

<400>  178

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10


<210>  179
<211>  13
<212>  PRT
<213>  Artificial

<220>
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<220>
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<223>  K is derivatized with fluorophore

<220>
<221>  MOD_RES
<222>  (11)..(11)
<223>  K is derivatized with fluorophore

<400>  179

Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10


<210>  180
<211>  16
<212>  PRT
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<220>
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<220>
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<220>
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<223> K is blocked with Fmoc

<220>
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<223> K is derivatized with fluorophore

<220>
<221> MOD_RES
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<223> K is derivatized with fluorophore

<400> 180

Lys Asp Asx Gly Asp Glu Val Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1   5   10   15

<210> 181
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> misc_feature
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<220>
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<223> K is blocked with Fmoc

<220>
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<223> K is derivatized with fluorophore

<220>
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<223> X is episilon aminocaproic acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
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<223> X is episilon aminocaproic acid

<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> K is derivatized with fluorophore

<400> 181

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 182
<211> 18
<212> PRT
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<220>
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<220>
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<220>
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<223> K is derivatized with fluorophore

<220>
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<220>
<221> misc_feature
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<223> Xaa can be any naturally occurring amino acid

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<220>

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<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
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<223> K is derivatized with fluorophore

<400> 182

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Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1               5                   10                  15
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Gly Tyr

<210> 183
<211> 13
<212> PRT
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<220>
<223> Synthetic peptide substrate

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<220>
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<223> K is derivatized with fluorophore

<220>
<221> MOD_RES
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<223> K is derivatized with fluorophore

<400> 183

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Lys Asp Tyr Asx Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10
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<210> 184
<211> 13
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<220>
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<220>
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<223> ARTIFICIAL/UNKNOWN = synthetic protease indicator

<220>
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<223> K is derivatized with fluorophore

<220>
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<223> K is derivatized with fluorophore

<400> 184

Lys Asp Asx Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210> 185
<211> 12
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> misc_feature
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<220>
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<220>
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<223> K is derivatized with fluorophore

<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<400> 185

Lys Asp Ala Ile Pro Xaa Ser Ile Pro Lys Gly Tyr
1   5   10

<210> 186
<211> 18

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<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
<221>   misc_feature
<223>   Artificial/Unknown = synthetic protease indicator

<220>
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<223>   K is blocked with Fmoc

<220>
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<223>   K is derivatized with fluorophore

<220>
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<223>   X is episilon aminocaproic acid

<220>
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<223>   Xaa can be any naturally occurring amino acid

<220>
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<220>
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<222>   (14)..(14)
<223>   Xaa can be any naturally occurring amino acid

<220>
<221>   MOD_RES
<222>   (16)..(16)
<223>   K is derivatized with fluorophore

<400>   186

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1               5                   10                  15


Gly Tyr


<210>   187
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate
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-110-

<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
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<223> K is derivatized with fluorophore

<400> 187

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 188
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> misc_feature
<223> Artificial/Unknown = synthetic protease indicator

<220>

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<223>  K is derivatized with a fluorophore

<220>
<221>  MOD_RES
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<223>  K is derivatized with a fluorophore

<400>  188

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1               5                   10


<210>  189
<211>  8
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  misc_feature
<223>  Artificial/Unknown = central protease recognition domain

<400>  189

Gly Asp Glu Val Asp Gly Ile Asp
1               5


<210>  190
<211>  4
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  misc_feature
<223>  Artificial/Unknown = tetrapeptide core

<220>
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<222>  (3)..(3)
<223>  X is alpha aminobutyric acid (Aib)

<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa can be any naturally occurring amino acid

<400>  190

Lys Asp Xaa Gly
1


<210>  191
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<211>  5
<212>  PRT
<213>  Artificial

<220>
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<220>
<221>  misc_feature
<223>  Artificial/Unknown = pentapeptide core

<220>
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<223>  X is alpha aminobutyric acid (Aib)

<220>
<221>  misc_feature
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<223>  Xaa can be any naturally occurring amino acid

<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  X is episilonaminocaproic acid

<400>  191

Lys Asp Xaa Xaa Gly
1                   5


<210>  192
<211>  4
<212>  PRT
<213>  Artificial

<220>
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<220>
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<220>
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<220>
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<222>  (2)..(2)
<223>  Xaa can be any naturally occurring amino acid

<400>  192

Gly Xaa Pro Lys
1


<210>  193
<211>  14
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<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
<221>   misc_feature
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<220>
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<220>
<221>   MOD_RES
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<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
<222>   (12)..(12)
<223>   K is derivatized with fluorophore

<400>   193

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1                   5                   10


<210>   194
<211>   14
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<220>
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<220>
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<223>   K is derivatized with fluorophore

<220>
<221>   MOD_RES
<222>   (12)..(12)
<223>   K is derivatized with fluorophore

<400>   194

Lys Asp Asx Asp Glu Val Asp Gly Ile Asp Pro Lys Gly Tyr
1                   5                   10
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<210> 195
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<220>
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<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
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<400> 195

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 196
<211> 7
<212> PRT
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<220>
<223> Synthetic peptide substrate

<220>
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<223> Artificial synthethic protease substrate

<400> 196

Asp Glu Val Asp Gly Ile Asn
1   5

<210> 197
<211> 8
<212> PRT
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<220>
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<220>
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<400> 197

Xaa Asp Glu Val Asp Gly Ile Asn
1   5

<210> 198
<211> 7
<212> PRT
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<220>
<223> Synthetic peptide substrate

<220>
<221> Artificial
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<223> Artificial protease substrate

<400> 198

Asp Glu Val Asp Gly Ile Asp
1   5

<210> 199
<211> 7
<212> PRT

<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
<221>   Artificial
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<223>   Artificial protease substrate

<400>   199

Leu Val Glu Ile Asp Asn Gly
1   5

<210>   200
<211>   8
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
<221>   Artificial
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<223>   Artificial protease substrate

<400>   200

Gly Ile Glu Thr Glu Ser Gly Val
1   5

<210>   201
<211>   4
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
<221>   Artificial
<222>   (1)..(4)
<223>   Artificial protease substrate

<400>   201

Thr Gly Arg Thr
1

<210>   202
<211>   6
<212>   PRT
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<220>
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<220>
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<222>  (1)..(6)
<223>  Artificial protease substrate

<400>  202

Val Met Thr Gly Arg Thr
1               5


<210>  203
<211>  9
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  Artificial
<222>  (1)..(9)
<223>  Artificial protease substrate

<400>  203

Ser Glu Val Lys Leu Asp Ala Glu Phe
1               5


<210>  204
<211>  9
<212>  PRT
<213>  Artificial

<220>
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<220>
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<223>  E is D form

<220>
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<222>  (5)..(5)
<223>  L is D form

<220>
<221>  MOD_RES
<222>  (9)..(9)
<223>  L is D form

<400>  204

Ser Glu Val Lys Leu Asp Ala Glu Phe
1               5


<210>  205
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<211>   7
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<222>   (1)..(7)
<223>   Artificial peptide substrate

<400>   205

Glu Asp Val Val Cys Cys Ser
1               5


<210>   206
<211>   7
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
<221>   Artificial
<222>   (1)..(7)
<223>   Artificial protease substrate

<400>   206

Glu Glu Val Glu Gly Ile Asn
1               5


<210>   207
<211>   7
<212>   PRT
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<220>
<223>   Synthetic peptide substrate


<220>
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<223>   F is D form

<400>   207

Asp Phe Val Asp Gly Ile Asn
1               5


<210>   208
<211>   7
<212>   PRT
<213>   Artificial
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<220>
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<220>
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<223> D is D form

<220>
<221> MOD_RES
<222> (4)..(4)
<223> D is D form

<400> 208

Asp Glu Val Asp Gly Ile Asn
1   5

<210> 209
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> Artificial
<222> (1)..(7)
<223> Artificial protease substrate

<400> 209

Leu Val Glu Ile Glu Asn Gly
1   5

<210> 210
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> Artificial
<222> (1)..(7)
<223> Artificial protease substrate

<400> 210

Gly Ile Glu Thr Asp Ser Gly
1   5

<210> 211
<211> 7
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> Artificial
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<223> Artificial protease substrate

<400> 211

Gly Ile Glu Thr Glu Ser Gly
1   5

<210> 212
<211> 7
<212> PRT
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<220>
<223> Synthetic peptide substrate

<220>
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<222> (1)..(7)
<223> Artificial protease substrate

<400> 212

Leu Glu His Asp Gly Ile Asn
1   5

<210> 213
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<400> 213

Leu Glu Thr Asp Gly Ile Asn
1   5

<210> 214
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<220>
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<400>  214

Trp Glu His Asp Gly Ile Asn
1               5


<210>  215
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<220>
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<223>  Artificial protease substrate

<400>  215

Tyr Val His Asp Gly
1               5


<210>  216
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<400>  216

Tyr Val His Asp Gly Ile Asn
1               5


<210>  217
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<223>  Artificial protease substrate

<400>  217

Tyr Val His Asp Ala
1               5


<210>  218
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<400>  218

Thr Gly Arg Thr Gly
1               5


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<223>  F is D form

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Ser Glu Val Lys Leu Asp Ala Glu Phe
1               5


<210>  220
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<220>
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<223> Synthetic peptide substrate

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<223> Artificial protease substrate

<400> 220

Ile Glu Pro Asp Ser
1   5

<210> 221
<211> 7
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<220>
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<400> 221

Pro Leu Gly Ile Ala Gly Ile
1   5

<210> 222
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<220>
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<400> 222

Ser Gln Asn Tyr Pro Ile Val Gln
1   5

<210> 223
<211> 4
<212> PRT
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<220>
<223> protease substrate

<400> 223

Gly Gly Gly Gly
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<210> 224
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<222> (14)..(14)
<223> Xaa can be any naturally occurring amino acid

<400> 224

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1   5   10   15

Gly Tyr

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<220>
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<220>
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<223>   Xaa can be any naturally occurring amino acid

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<400>   225

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10                  15


<210>   226
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<223>   Xaa can be any naturally occurring amino acid

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<400>  226

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1               5               10              15

Lys Gly Tyr


<210>  227
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<220>
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<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  227

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1               5               10              15

Tyr


<210>  228
<211>  17
<212>  PRT
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<220>
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<220>
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<220>
<221>   misc_feature
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<223>   Xaa can be any naturally occurring amino acid

<400>   228

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1                5                   10              15


Tyr



<210>   229
<211>   16
<212>   PRT
<213>   Artificial

<220>
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<220>
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<223>   K is blocked with amide

<400>   229
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1               5                   10                  15


<210>  230
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<220>
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<400>  230

Lys Asp Pro Xaa Gly Leu Val Glu Ile Asp Asn Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>  231
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<212>  PRT
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<220>
<223>  Synthetic peptide substrate


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<220>
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<223> Xaa can be any naturally occurring amino acid

<400> 231

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Val Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 232
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<212> PRT
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<220>
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<400> 232

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 233
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<220>

<223> Synthetic peptide substrate

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<223> D is blocked with Fmoc

<400> 233

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 234
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<400> 234

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 235
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<212> PRT
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<221> misc_feature
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<400> 235

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10

<210> 236
<211> 15
<212> PRT
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<400> 236

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 237
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<220>
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<223>  Xaa can be any naturally occurring amino acid

<400>  237

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10


<210>  238
<211>  13
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  MOD_RES
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<400>  238

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10


<210>  239
<211>  20
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<220>
<223>  Synthetic peptide substrate


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<220>
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<400> 239

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210> 240
<211> 21
<212> PRT
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<220>
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Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Cys
1   5   10   15

Pro Lys Asp Asp Tyr
            20

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<210>  241
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<220>
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<220>
<221>  misc_feature
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<400>  241

Lys Asp Pro Xaa Gly Glu Asp Val Val Cys Cys Ser Gly Xaa Pro Lys
1               5                   10                  15


Gly Tyr



<210>  242
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<220>
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<220>
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<400> 242

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 243
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
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<220>
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<220>
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<400> 243

Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 244
<211> 18
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<220>
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<400> 244

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 245
<211> 17
<212> PRT
<213> Artificial

<220>
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<220>
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<220>

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<220>
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<220>
<221>   MOD_RES
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<223>   X is episilon-aminocaproic acid

<400>   245

Lys Asp Pro Xaa Gly Leu Val Glu Ile Glu Asn Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>   246
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<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<400>   246

Lys Asp Pro Xaa Gly Ile Glu Thr Asp Ser Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15


<210>   247
<211>   16
<212>   PRT
<213>   Artificial
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<220>
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<220>
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<400> 247

Lys Asp Pro Xaa Gly Ile Glu Thr Glu Ser Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 248
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<220>
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<220>
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<222> (14)..(14)
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<400> 248

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210>   249
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<220>
<221>   misc_feature
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<223>   Xaa can be any naturally occurring amino acid

<400>   249

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210>   250
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<220>
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<222>   (4)..(4)
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<220>

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<223>   X is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (14)..(14)
<223>   Xaa can be any naturally occurring amino acid

<400>   250

Lys Asp Pro Xaa Gly Trp Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1                 5                   10                  15


Gly Tyr



<210>   251
<211>   15
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<223>   X is episilon-aminocaproic acid

<220>
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<220>
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<220>
<221>   misc_feature
<222>   (11)..(11)
<223>   Xaa can be any naturally occurring amino acid

<400>   251

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Xaa Pro Lys Gly Tyr
1                 5                   10                  15


<210>   252
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate


<220>
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<221>   MOD_RES
<222>   (4)..(4)
<223>   X is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa can be any naturally occurring amino acid

<220>
<221>   MOD_RES
<222>   (14)..(14)
<223>   X is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (14)..(14)
<223>   Xaa can be any naturally occurring amino acid

<400>   252

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210>   253
<211>   14
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>
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<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa can be any naturally occurring amino acid

<400>   253

Lys Asp Pro Xaa Gly Tyr Val His Asp Ala Pro Lys Gly Tyr
1   5   10

<210>   254
<211>   14
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide substrate

<220>

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<221>  MOD_RES
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<220>
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<222>  (4)..(4)
<223>  Xaa can be any naturally occurring amino acid

<220>
<221>  misc_feature
<222>  (10)..(10)
<223>  Xaa can be any naturally occurring amino acid

<220>
<221>  MOD_RES
<222>  (14)..(14)
<223>  X is episilon-aminocaproic acid

<400>  254

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1               5                   10


<210>  255
<211>  13
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  MOD_RES
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<223>  4-aminobutyric acid

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  Xaa can be any naturally occurring amino acid

<400>  255

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1               5                   10


<210>  256
<211>  13
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  MOD_RES
<222>  (4)..(4)
<223>  Xis 8-aminocaprylic acid
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<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<400> 256

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 257
<211> 20
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
<221> MOD_RES
<222> (4)..(4)
<223> X is 4-aminobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
<222> (7)..(7)
<223> E is D form

<220>
<221> MOD_RES
<222> (10)..(10)
<223> L is D form

<220>
<221> MOD_RES
<222> (14)..(14)
<223> F is D form

<220>
<221> MOD_RES
<222> (16)..(16)
<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (16)..(16)
<223> Xaa can be any naturally occurring amino acid

<400> 257

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
          20

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<210>  258
<211>  16
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  MOD_RES
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<223>  X is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  Xaa can be any naturally occurring amino acid

<220>
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<222>  (12)..(12)
<223>  X is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (12)..(12)
<223>  Xaa can be any naturally occurring amino acid

<400>  258

Lys Asp Pro Xaa Gly Ile Glu Pro Asp Ser Gly Xaa Pro Lys Gly Tyr
1               5                   10                  15


<210>  259
<211>  18
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide substrate


<220>
<221>  MOD_RES
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<223>  X is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  Xaa can be any naturally occurring amino acid

<220>
<221>  MOD_RES
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<223>  X is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (14)..(14)
<223>  Xaa can be any naturally occurring amino acid
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<400> 259

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 260
<211> 19
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide substrate

<220>
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<220>
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<222> (4)..(4)
<223> Xaa can be any naturally occurring amino acid

<220>
<221> MOD_RES
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<223> X is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa can be any naturally occurring amino acid

<400> 260

Lys Asp Pro Xaa Gly Ser Gln Asn Tyr Pro Ile Val Gln Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 261
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
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<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 261

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 262
<211> 16
<212> PRT
<213> Artificial

<220>
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<220>
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<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 262

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

<210> 263
<211> 19
<212> PRT
<213> Artificial

<220>
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<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa is tetrahydroisoquinoline-3-carboxylic acid

<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa is episilon-aminocaproic acid

<400> 263

Lys Asp Pro Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 264
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is epsilon-aminocaproic acid

<400> 264

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Pro Lys Gly
1   5   10   15

Tyr

<210> 265
<211> 17
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
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<223> Xaa can be any naturally occurring amino acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is epsilon-aminocaproic acid

<400> 265

Lys Asp Pro Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 266

-148-

<211> 16
<212> PRT
<213> Artificial

<220>
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<220>
<221> misc_feature
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<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 266

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

<210> 267
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
<221> misc_feature
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<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 267

Lys Asp Pro Xaa Gly Glu Glu Val Glu Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 268
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature

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<222>   (4)..(4)
<223>   Xaa is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (14)..(14)
<223>   Xaa is episilon-aminocaproic acid

<400>   268

Lys Asp Pro Xaa Gly Asp Phe Val Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10              15


Gly Tyr



<210>   269
<211>   18
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide.  Chemically synthesized protease substrate.


<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (14)..(14)
<223>   Xaa is episilon-aminocaproic acid

<400>   269

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10              15


Gly Tyr



<210>   270
<211>   18
<212>   PRT
<213>   Artificial

<220>
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<220>
<221>   misc_feature
<222>   (4)..(4)
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<220>
<221>   misc_feature
<222>   (14)..(14)
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<223> Xaa is episilon-aminocaproic acid

<400> 270

Lys Asp Pro Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 271
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
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<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 271

Lys Asp Asx Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 272
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 272

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 273
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
<221> misc_feature
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<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 273

Lys Asp Asx Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 274
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 274

Lys Asp Asx Xaa Gly Asp Glu Val Asn Gly Ile Asp Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

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<210>  275
<211>  19
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide.  Chemically synthesized protease substrate.


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa is alpha-aminoisobutyric acid

<220>
<221>  misc_feature
<222>  (4)..(5)
<223>  Xaa is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (14)..(15)
<223>  Xaa is episilon-aminocaproic acid

<400>  275

Lys Asp Xaa Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asp Xaa Xaa Pro
1               5                   10                  15


Lys Gly Tyr



<210>  276
<211>  18
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide.  Chemically synthesized protease substrate.


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa is alpha-aminoisobutyric acid

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  Xaa is episilon-aminocaproic acid

<220>
<221>  misc_feature
<222>  (14)..(14)
<223>  Xaa is episilon-aminocaproic acid

<400>  276

Lys Asp Xaa Xaa Gly Asn Glu Val Asp Gly Ile Asp Gly Xaa Pro Lys
1               5                   10                  15
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Gly Tyr

<210> 277
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 277

Lys Asp Xaa Xaa Gly Asp Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 278
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
<221> misc_feature
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<223> Xaa is alpha-aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is episilon-aminocaproic acid

<400> 278

Lys Asp Xaa Xaa Gly Asn Glu Val Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 279
<211> 18
<212> PRT
<213> Artificial

<220>
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<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is epsilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)
<223> Xaa is epsilon-aminocaproic acid

<400> 279

Lys Asp Xaa Xaa Gly Asp Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 280
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is epsilon-aminocaproic acid

<220>
<221> misc_feature
<222> (14)..(14)

<223>   Xaa is episilon-aminocaproic acid

<400>   280

Lys Asp Xaa Xaa Gly Asn Glu Val Asn Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210>   281
<211>   19
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221>   misc_feature
<222>   (3)..(3)
<223>   Xaa is alpha-aminoisobutyric acid

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   Xaa is episilon-aminocaproic acid

<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   Xaa is tetrahydroisoquinoline-3-carboxylic acid

<220>
<221>   misc_feature
<222>   (15)..(15)
<223>   Xaa is episilon-aminocaproic acid

<400>   281

Lys Asp Asx Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1   5   10   15

Lys Gly Lys

<210>   282
<211>   19
<212>   PRT
<213>   Artificial

<220>
<223>   Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221>   misc_feature
<222>   (3)..(3)
<223>   Xaa is alpha-aminoisobutyric acid
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<220>
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<223>  Xaa is epislion-aminocaproic acid

<220>
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<222>  (6)..(6)
<223>  Xaa is tetrahydroisoquinoline-3-carboxylic acid

<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  Xaa is epislion-aminocaproic acid

<400>  282

Lys Asp Xaa Xaa Gly Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1               5                   10                  15


Lys Gly Tyr



<210>  283
<211>  19
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide.  Chemically synthesized protease substrate.


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa is alpha-aminoisobutyric acid

<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  Xaa is epislion-aminocaproic acid

<220>
<221>  misc_feature
<222>  (15)..(15)
<223>  Xaa is epislion-aminocaproic acid

<400>  283

Lys Asp Xaa Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1               5                   10                  15


Lys Gly Tyr



<210>  284
<211>  19
<212>  PRT
<213>  Artificial
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<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
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<220>
<221> misc_feature
<222> (15)..(15)
<223> Xaa is eprsilon-aminocaproic acid

<400> 284

Lys Asp Asx Xaa Gly Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa Pro
1   5   10   15

Lys Gly Tyr

<210> 285
<211> 20
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
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<223> Xaa is alpha-aminoisobutyric acid

<220>
<221> misc_feature
<222> (4)..(4)
<223> Xaa is eprsilon-aminocaproic acid

<220>
<221> misc_feature
<222> (6)..(7)
<223> Xaa is tetrahydroisoquinoline-3-carboxylic acid.

<220>
<221> misc_feature
<222> (16)..(16)
<223> Xaa is eprsilon-aminocaproic acid

<400> 285

Lys Asp Xaa Xaa Gly Xaa Xaa Asp Glu Val Asp Gly Ile Asp Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
          20

<210> 286
<211> 20
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
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<220>
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<222> (4)..(4)
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<220>
<221> misc_feature
<222> (16)..(16)
<223> Xaa is episilon-aminocaproic acid

<400> 286

Lys Asp Xaa Xaa Gly Trp Trp Asp Glu Val Asp Gly Ile Asp Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
          20

<210> 287
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<400> 287

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asp Pro Lys Gly Tyr
1   5   10

<210> 288
<211> 14
<212> PRT
<213> Artificial

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<220>
<223>  Synthetic peptide.  Chemically synthesized protease substrate.


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa is alpha-aminoisobutyric acid

<400>  288

Lys Asp Xaa Tyr Val Ala Asp Gly Ile Asn Pro Lys Gly Tyr
1               5                   10


<210>  289
<211>  14
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide.  Chemically synthesized protease substrate.


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa is alpha-aminoisobutyric acid

<400>  289

Lys Asp Xaa Tyr Val Ala Asn Gly Ile Asn Pro Lys Gly Tyr
1               5                   10


<210>  290
<211>  16
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide.  Chemically synthesized protease substrate.


<220>
<221>  misc_feature
<222>  (3)..(3)
<223>  Xaa is alpha-aminoisobutyric acid

<400>  290

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asp Gly Pro Lys Gly Tyr
1               5                   10                  15


<210>  291
<211>  16
<212>  PRT
<213>  Artificial

<220>
<223>  Synthetic peptide.  Chemically synthesized protease substrate.
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<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<400> 291

Lys Asp Xaa Gly Tyr Val Ala Asp Gly Ile Asn Gly Pro Lys Gly Tyr
1   5   10   15

<210> 292
<211> 16
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (3)..(3)
<223> Xaa is alpha-aminoisobutyric acid

<400> 292

Lys Asp Xaa Gly Tyr Val Ala Asn Gly Ile Asn Gly Pro Lys Gly Tyr
1   5   10   15

<210> 293
<211> 18
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
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<223> Xaa is alpha-aminoisobutyric acid

<220>
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Gly Tyr

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Gly Tyr

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Gly Tyr

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Tyr

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Gly Tyr

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Gly Tyr

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1   5   10   15

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<400> 307

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1   5   10   15

Tyr

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1   5   10   15

Tyr

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Lys Gly Tyr

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Tyr

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Tyr

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Tyr

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1               5                   10                  15


Lys Gly Tyr



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1               5                   10                  15


Lys Gly Tyr



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1   5   10   15

Lys Gly Tyr

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1   5   10   15

Tyr

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1   5   10   15

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1   5   10   15

Lys Gly Tyr

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1               5                   10                  15


Lys Gly Tyr



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1               5                   10                  15


Lys Gly Tyr



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1               5                   10                  15


Gly Tyr




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Gly Tyr




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1               5                   10                  15


Gly Tyr



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Gly Tyr



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Lys Gly Tyr



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Lys Gly Tyr



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1   5   10   15

Gly Tyr

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Gly Tyr



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1               5                   10                  15
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1               5                   10                  15


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<400>  334

Lys Asp Xaa Xaa Gly Asp Glu Met Glu Glu Cys Ser Gln His Leu Pro
1               5                   10                  15


Lys Gly Tyr


<210>  335
<211>  19
<212>  PRT
<213>  Artificial
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-181-

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<220>
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<220>
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<400> 335

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1   5   10   15

Lys Gly Tyr

<210> 336
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<220>
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<220>
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<400> 336

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1   5   10   15

Lys Gly Tyr

<210> 337
<211> 18
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<220>
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<400> 337

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Pro Lys
1   5   10   15

Gly Tyr

<210> 338
<211> 18
<212> PRT
<213> Artificial

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<220>
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<220>
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<400> 338

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Pro Gln His Leu Pro Lys
1   5   10   15 ·

Gly Tyr

<210> 339
<211> 18
<212> PRT
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<220>
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<220>
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<400> 339

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Pro Lys
1   5   10   15

Gly Tyr

<210> 340
<211> 19
<212> PRT
<213> Artificial

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<220>
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<220>
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<222> (4)..(4)
<223> Xaa is episilon-aminocaproic acid

<400> 340

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 341
<211> 19
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<220>
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<220>
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<400> 341

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Lys Gly Tyr

<210> 342
<211> 19
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<220>
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<220>
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<400> 342

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Pro
1   5   10   15

Lys Gly Tyr

<210> 343
<211> 20
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<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 343

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Cys Ser Gln His Leu Gly Xaa
1   5   10   15

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Pro Lys Gly Tyr
          20


<210>  344
<211>  20
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<400>  344

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1               5                   10                  15


Pro Lys Gly Tyr
          20


<210>  345
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<223>  Xaa is episilon-aminocaproic acid
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<400> 345

Lys Asp Xaa Xaa Gly Glu Met Glu Glu Asp Ser Gln His Leu Gly Xaa
1   5   10   15

Pro Lys Gly Tyr
            20

<210>   346
<211>   17
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<220>
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<400>   346

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210>   347
<211>   17
<212>   PRT
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<220>

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<400>  347

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>  348
<211>  17
<212>  PRT
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<400>  348

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>  349
<211>  17
<212>  PRT
<213>  Artificial

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<220>
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<400>   349

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>   350
<211>   16
<212>   PRT
<213>   Artificial

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1               5                   10                  15


<210>   351
<211>   17
<212>   PRT
<213>   Artificial

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<220>
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<220>
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<400>   351

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>   352
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<212>   PRT
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<220>
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<220>
<221>   misc_feature
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<400>   352

Lys Asp Xaa Xaa Gly Val Met Thr Gly Arg Gly Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>   353
<211>   8
<212>   PRT
<213>   Artificial

<220>
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<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 353

Lys Asp Pro Xaa Thr Gly Arg Thr
1   5

<210> 354
<211> 11
<212> PRT
<213> Artificial

<220>
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<400> 354

Asp Pro Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 355
<211> 15
<212> PRT
<213> Artificial

<220>
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<220>
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<400> 355

Lys Asp Pro Val Met Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 356
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
<222> (9)..(9)
<223> Xaa is episilon-aminocaproic acid

<400> 356

Lys Asp Pro Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10

<210> 357
<211> 15

<210> PRT
<213> Artificial

<220>
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<220>
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<223> Xaa can be any naturally occurring amino acid

<220>
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<223> Xaa is episilon-aminocaproic acid

<400> 357

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10   15

<210> 358
<211> 14
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<220>
<221> misc_feature
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<223> Xaa can be any naturally occurring amino acid

<400> 358

Lys Asp Pro Xaa Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 359
<211> 13
<212> PRT
<213> Artificial

<220>
<223> Synthetic peptide. Chemically synthesized protease substrate.

<400> 359

Lys Asp Pro Gly Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 360
<211> 14
<212> PRT
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-192-

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<220>
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<400> 360

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Xaa Pro Lys Gly Tyr
1   5   10

<210> 361
<211> 13
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<220>
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<400> 361

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 362
<211> 13
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<220>
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<223> Xaa is 8-aminocaprylic acid

<400> 362

Lys Asp Pro Xaa Thr Gly Arg Thr Gly Pro Lys Gly Tyr
1   5   10

<210> 363
<211> 17
<212> PRT
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<220>

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<220>
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<220>
<221> misc_feature
<222> (13)..(13)
<223> Xaa is episilon-aminocaproic acid

<400> 363

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 364
<211> 17
<212> PRT
<213> Artificial

<220>
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<220>
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<222> (13)..(13)
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<400> 364

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Val Gly Xaa Pro Lys Gly
1   5   10   15

Tyr

<210> 365
<211> 17
<212> PRT
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<220>
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<222>   (13)..(13)
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<400>   365

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>   366
<211>   17
<212>   PRT
<213>   Artificial

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<220>
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<222>   (13)..(13)
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<400>   366

Lys Asp Asx Xaa Gly Val Met Thr Gly Arg Ala Gly Xaa Pro Lys Gly
1               5                   10                  15


Tyr



<210>   367
<211>   26
<212>   PRT
<213>   Artificial

<220>
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<400>  367

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Gly Tyr Gly Xaa Pro Lys Gly Tyr
            20              25


<210>  368
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<223>  Xaa is episilon-aminocaproic acid

<400>  368

Lys Asp Pro Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Gly Tyr
            20


<210>  369
<211>  20
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<220>
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<223>  Xaa is episilon-aminocaproic acid
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<400> 369

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1   5   10   15

Pro Lys Gly Tyr
            20

<210> 370
<211> 21
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<220>
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<400> 370

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Ala Glu Phe Gly Xaa
1   5   10   15

Pro Lys Asp Asp Tyr
            20

<210> 371
<211> 21
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<220>
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<220>

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<400>  371

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Leu Asp Ala Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Asp Asp Tyr
            20


<210>  372
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<213>  Artificial

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<400>  372

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Ala Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Asp Asp Tyr
            20


<210>  373
<211>  21
<212>  PRT
<213>  Artificial

<220>
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<220>
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<220>
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<223>   Xaa is episilon-aminocaproic acid

<400>   373

Lys Asp Xaa Xaa Gly Ser Glu Val Lys Met Asp Asp Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Asp Asp Tyr
            20



<210>   374
<211>   21
<212>   PRT
<213>   Artificial

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<220>
<221>   misc_feature
<222>   (16)..(16)
<223>   Xaa is episilon-aminocaproic acid

<400>   374

Lys Asp Xaa Xaa Gly Ser Glu Val Asn Leu Asp Asp Glu Phe Gly Xaa
1               5                   10                  15


Pro Lys Asp Asp Tyr
            20



<210>   375
<211>   23
<212>   PRT
<213>   Artificial

<220>
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<220>
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1   5   10   15

Gly Xaa Pro Lys Asp Asp Tyr
        20

<210> 376
<211> 24
<212> PRT
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<220>
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<400> 376

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1   5   10   15

Thr Gly Xaa Pro Lys Asp Asp Tyr
        20

<210> 377
<211> 18
<212> PRT
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<220>
<221>  misc_feature
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<400>  377

Lys Asp Xaa Xaa Gly Val Ile Ala Thr Val Ile Gly Xaa Pro Lys Asp
1               5                   10                  15


Asp Tyr



<210>  378
<211>  18
<212>  PRT
<213>  Artificial

<220>
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<220>
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<400>  378

Lys Asp Xaa Xaa Asx Tyr Gly Val Val Ile Ala Gly Xaa Pro Lys Asp
1               5                   10                  15


Asp Tyr



<210>  379
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<212>  PRT
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<400>   379

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1               5                   10                  15


<210>   380
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<400>   380

Lys Asp Xaa Xaa Gly Gln Gln Leu Leu His Asn Gly Xaa Pro Lys
1               5                   10                  15


<210>   381
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<400>  381

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1               5                   10


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<400>  382

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1               5                   10


<210>  383
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<223>  Xaa is episilon-aminocaproic acid

<400>  383

Lys Asp Xaa Xaa Xaa Ser Ile Gln Tyr Thr Tyr Xaa Xaa Pro Lys
1               5                   10                  15


<210>  384
<211>  15
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<400>  384

Lys Asp Xaa Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Xaa Pro Lys
1               5                   10                  15


<210>  385
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<400>  385

Lys Asp Xaa Gly Ser Ile Gln Tyr Thr Tyr Gly Pro Lys
1               5                   10


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<400>  386
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Lys Asp Xaa Ser Ile Gln Tyr Thr Tyr Pro Lys
1   5   10

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<400> 387

Lys Asp Xaa Xaa Xaa Ser Ser Gln Tyr Ser Asn Xaa Xaa Pro Lys
1   5   10   15

<210> 388
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<220>
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<400> 388

Lys Asp Xaa Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Xaa Pro Lys
1   5   10   15

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<210>  389
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<400>  389

Lys Asp Xaa Gly Ser Ser Gln Tyr Ser Asn Gly Pro Lys
1               5                   10


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<400>  390

Lys Asp Xaa Ser Ser Gln Tyr Ser Asn Pro Lys
1               5                   10


<210>  391
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<400> 391

Lys Asp Xaa Xaa Xaa Ser Ser Ile Tyr Ser Gln Xaa Xaa Pro Lys
1   5   10   15

<210> 392
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<400> 392

Lys Asp Xaa Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Xaa Pro Lys
1   5   10   15

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<400> 393

Lys Asp Xaa Gly Ser Ser Ile Tyr Ser Gln Gly Pro Lys
1   5   10

<210> 394
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1   5   10

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<400> 395

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1   5   10   15

Pro Lys Gly Tyr
            20

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<222> (14)..(14)
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<400> 396

Lys Asp Pro Xaa Gly Leu Glu His Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 397
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<213> Artificial

<220>
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<220>
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<222> (14)..(14)
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<400> 397

Lys Asp Pro Xaa Gly Leu Glu Thr Asp Gly Ile Asn Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

<210> 398
<211> 18
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<400> 398

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1   5   10   15

Gly Tyr

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<210>   399
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1               5                   10              15


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<400>   400

Lys Asp Pro Xaa Gly Tyr Val His Asp Gly Ile Asn Gly Xaa Pro Lys
1               5                   10              15


Gly Tyr


<210>   401
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1   5   10

<210> 402
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<400> 402

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1   5   10   15

<210> 403
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<222> (14)..(14)
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<400> 403

Lys Asp Pro Xaa Gly Pro Leu Gly Ile Ala Gly Ile Gly Xaa Pro Lys
1   5   10   15

Gly Tyr

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1               5                   10                  15


Lys Gly Tyr



<210>    405
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<400>    405

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1               5                   10                  15


Gly Tyr
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